UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,483	06/23/2006	Eberhard Handrich	L-413	3064
7590 11/29/2007 Elliot N Kramsky			EXAMINER	
5850 Canoga Avenue			CHAPMAN JR, JOHN E	
Suite 400 Woodland Hills, CA 91367			ART UNIT	PAPER NUMBER
	.,		2856	
	•		MAIL DATE	DELIVERY MODE
			11/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/584,483	HANDRICH ET AL.			
Office Action Summary	Examiner	Art Unit			
	John E. Chapman	2856			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period verailure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☒ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.				
Disposition of Claims					
4) ⊠ Claim(s) 1,3,4,6,10-12 and 14 is/are pending in 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,3,4,6,10 and 11 is/are rejected. 7) ⊠ Claim(s) 12 and 14 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 23 June 2006 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	n accepted or b)⊠ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)	•				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/23/06. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

DETAILED ACTION

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first spring elements with the start and end points of each being located on a common axis (claim 11) must be shown or the feature canceled from the claim. No new matter should be entered.

The drawings are objected to because elements 58 and 59 in Fig. 2 should be labeled "DAC" instead of "ADC."

In addition, the drawings are of poor quality. Formal drawings should be provided.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Application/Control Number: 10/584,483 Page 3

Art Unit: 2856

2. The disclosure is objected to because of the following informalities:

Page 21, line 15, "analog/digital" should be --digital/analog--.

Page 21, line 16, "analog/digital" should be --digital/analog--.

Page 21, line 19, "analog/digital" should be --digital/analog--.

Appropriate correction is required.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 3, 4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Clark et al. (6,067,858).

Clark et al. discloses a method for quadrature-bias compensation in a Coriolis gyro in Fig. 14, whose resonator (202) is in the form of a coupled system comprising a first (220) and a second (230) linear oscillator, in which the first oscillator is attached to a gyro frame (204) of the Coriolis gyro by means of first spring elements (224) and the second oscillator is attached to the first oscillator by means of second spring elements (228), wherein the quadrature error of the Coriolis gyro is determined, and an electrostatic field is produced in order to nullify the quadrature error, i.e., make the quadrature error as small as possible. The electrostatic field produces a constant force that acts on the second linear oscillator (230) and thereby causes a change in the alignment of the first spring elements (224) and/or a change in the alignment of the second spring elements (228).

Art Unit: 2856

Regarding claim 3, the position/alignment of the first and second oscillator is varied by means of the electrostatic field.

Regarding claim 4, the quadrature correction compensates for manufacturing flaws, such as the first spring elements (224) and the second spring elements (228) not being orthogonal with respect to each other, and inherently tends to make the first spring elements (224) and the second spring elements (228) orthogonal with respect to each other.

Regarding claim 6, Clark et al. teaches providing a control loop in order to regulate the strength of the electrostatic field (column 22, lines 47-49).

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clark et al. (6,067,858).

Regarding claim 10, the only difference between the claimed invention and the prior art consist in using two spring elements (228) instead of four spring elements to support the second oscillator (230) to the first oscillator (220) such that force is introduced from the first oscillator to the second oscillator essentially from one side of the first oscillator. Merely to reduce the number of spring elements would have been obvious to one of ordinary skill in the art, and the results would have been predictable.

Art Unit: 2856

Regarding claim 11, the only difference between the claimed invention and the prior art consist in using two spring elements (224) instead of four spring elements to support the first oscillator (220). Merely to reduce the number of spring elements would have been obvious to one of ordinary skill in the art, and the results would have been predictable.

- 7. Claims 12 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Willig et al. (6,752,017) discloses a gyro having a first and second resonator, wherein each resonator comprises a first and second linear oscillator, with the first resonator mechanically coupled to the second resonator such that the two resonators can oscillate in antiphase with respect to one another.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John E. Chapman whose telephone number is (571) 272-2191. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

Application/Control Number: 10/584,483 Page 6

Art Unit: 2856

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

John E Chapman Primary Examiner Ant Unit 2856